



101 628 005

C H C

PATENT US 7,149,431 B2

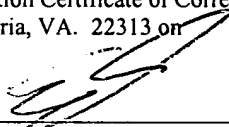
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTEE(S) : Dae-Kwang Jung et al.
PATENT NO. : US 7,149,431 B2
ISSUED : December 12, 2006
FOR : SELF-SEEDED FABRY-PEROT LASER DEVICE FOR
WAVELENGTH DIVISION MULTIPLEXING SYSTEM

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313 on March 5, 2007.

Steve Cha, Reg. No. 44,069
(Name of Registered Rep.)


(Signature and Date)

REQUEST FOR CERTIFICATE OF CORRECTION
UNDER 37 CFR 1.323

Attention Certificate of Corrections Branch
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
MAR 12 2007
of Correction

Dear Sir:

In accordance with the provisions of 37 CFR 1.323, the Patent and Trademark Office is respectfully requested to issue a Certificate of Correction in the above-identified Patent to correct an error in the foreign application priority number on the face of the Patent (Item 30). The foreign application priority number should read

-- 10-2002-0062820--

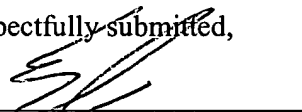
as shown on the Filing Receipt, copy enclosed.

MAR 12 2007

As these mistakes were the fault of the Patent and Trademark Office, it is believed to be in order for the Patent and Trademark Office to issue a Certificate of Correction and to place such Certificate in the file, so that such will appear on any copies of the Patent which are ordered in the future. Moreover, since these mistakes are that of the Patent and Trademark Office, such should be done without charge.

Two (2) copies of Form PTO/SB/44 embodying the requested correction accompany this letter. Return of one copy of the Form duly certified is requested.

Respectfully submitted,



By: Steve Cha
Attorney for Applicant
Registration No. 44,069

Date: March 5, 2007

Enclosure: Copy of Filing Receipt
Form PTO/SB/44

Mail all correspondence to:
Steve S. Cha, Reg. No. 44,069
CHA & REITER, LLC
210 Route 4 East, Suite #103
Paramus, NJ 07652
Telephone: 201-226-9245
Fax: 201-226-9246

MAR 12 2007

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,149,431 B2

APPLICATION NO.: 10/628,005

ISSUE DATE : December 12, 2006

INVENTOR(S) : Dae-Kwang Jung et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item [30], Foreign Application Priority Number, should read as follows:

--10/2002-0062820.--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

CHA & REITER, LLC
210 Route 4 East, Suite 103
Paramus, NJ 07652

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAR 12 2007

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,149,431 B2
APPLICATION NO.: 10/628,005
ISSUE DATE : December 12, 2006
INVENTOR(S) : Dae-Kwang Jung et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page
Item [30], Foreign Application Priority Number, should read as follows:

--10/2002-0062820.--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

CHA & REITER, LLC
210 Route 4 East, Suite 103
Paramus, NJ 07652

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

1 2 2007



US007149431B2

(12) **United States Patent**
Jung et al.

(10) **Patent No.:** **US 7,149,431 B2**
(45) **Date of Patent:** **Dec. 12, 2006**

(54) **SELF-SEEDED FABRY-PEROT LASER
DEVICE FOR WAVELENGTH DIVISION
MULTIPLEXING SYSTEM**

(75) Inventors: **Dae-Kwang Jung**, Suwon-shi (KR);
Tae-Sung Park, Suwon-shi (KR)

(73) Assignee: **Samsung Electronics Co., Ltd.**,
Suwon-Si (KR)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 459 days.

(21) Appl. No.: **10/628,005**

(22) Filed: **Jul. 25, 2003**

(65) **Prior Publication Data**

US 2004/0071399 A1 Apr. 15, 2004

(30) **Foreign Application Priority Data**

Oct. 15, 2002 (KR) [10-2000-0062820]
-- 10-2002-0062820 --

(51) Int. Cl.
H04B 10/00 (2006.01)

(52) U.S. Cl. **398/138**

(58) Field of Classification Search **398/138,**
398/196

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,749,878 A * 6/1988 Snyder et al. 327/114

5,212,711 A *	5/1993	Harvey et al.	372/94
5,646,762 A *	7/1997	Delavaux et al.	398/180
5,691,989 A *	11/1997	Rakuljic et al.	372/20
5,917,633 A *	6/1999	Gambini et al.	398/32
6,067,181 A *	5/2000	Mizrahi	398/196
6,078,418 A *	6/2000	Hansen et al.	398/147
6,445,478 B1 *	9/2002	Shimizu et al.	398/192
6,744,792 B1 *	6/2004	Tayebati	372/32
6,845,108 B1 *	1/2005	Liu et al.	372/20
2001/0004290 A1 *	6/2001	Lee et al.	359/124
2001/0019562 A1 *	9/2001	Kai et al.	372/20
2003/0080899 A1 *	5/2003	Lee et al.	342/368
2004/0101305 A1 *	5/2004	Jung et al.	398/71

* cited by examiner

Primary Examiner—Deandra M. Hughes

(74) *Attorney, Agent, or Firm*—Cha & Reiter, L.L.C.

(57) **ABSTRACT**

Disclosed is a Fabry-Perot laser device connected with an optical transmission link. The device comprises an optical circulator for forming an optical waveguide loop and circulating light through the optical waveguide loop and for outputting light from the optical waveguide loop through an external port; an optical fiber amplifier located on the optical waveguide loop and for amplifying the light circulating in the optical waveguide loop; a laser light source connected with the exterior port and being self-seeded by the light inputted through the exterior port and for outputting wavelength-locked light to the exterior port; and, a first splitter located on the loop for splitting a portion of the circulating light and for outputting the split-off light to the optical transmission link.

12 Claims, 11 Drawing Sheets

